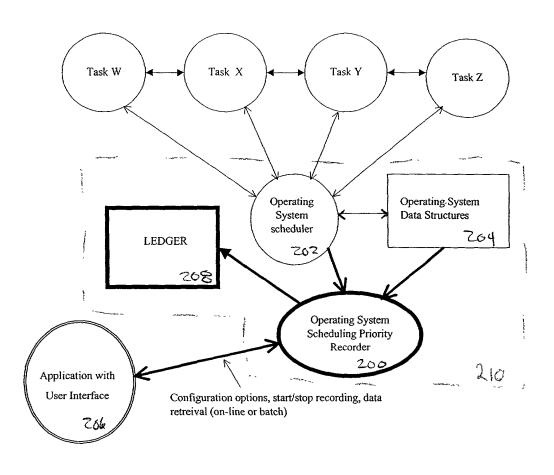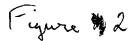Figure 1

Operating Software Scheduling Priority Recorder

Overview of the Operating Software Scheduling Priority Recorder interfaces with the operating system and user application.

Task W ⟷ Task X ⟷ Task Y ⟷ Task Z

Operating System scheduler
202

Operating-System Data Structures
264

LEDGER
208

Operating System Scheduling Priority Recorder
200

210

Application with User Interface
206

Configuration options, start/stop recording, data retreival (on-line or batch)

Figure # 2

302 304 306 308

Event number	Elapsed time	Running Event/task	tasks waiting count	waiting list
1	0	task 1 priority = 10 run-time = 50	0	end
2	50	isr 2 run-time = 5		
3	55	task 1 priority = 10 run-time = 10	1	task 2 priority = 2 | end
4	65	task 2 priority = 2 run-time = 100	0	end
5	165	task 3 priority = 6 run-time = 30	1	task 2 priority = 2 | end
6	195	isr 1 run-time = 5		
7	200	task 1 priority = 10 run-time = 60	2	task 3 priority = 6 | task 2 priority = 2 | end
8	260	task 3 priority = 6 run-time = 100	1	task 2 priority = 2 | end
9	360	task 2 priority = 2 run-time = 70	0	end
10	430	idle loop run-time = 8000	0	end
11	8430	isr 2 run-time = 5		
12	8435	task 2 priority = 2 run-time = 100	0	end
13	8535	task 3 priority = 6 run-time = 130	1	task 2 priority = 2 | end
14	8665	task 2 priority = 2 run-time = 70	0	end
15	8735	idle loop run-time = 8000	0	end

310 312 314 300 316 208

FIGURE 3

Elapsed Time	Program Schedule Count	Program Preempts	Interrupts
8735	5	3	3

400 402 404 406

FIGURE 4